



United States Patent [19]

Harman et al.

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[54] **EZ HITCH**

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[58]	Field of Search	
• •		280/494, 515, 491.5

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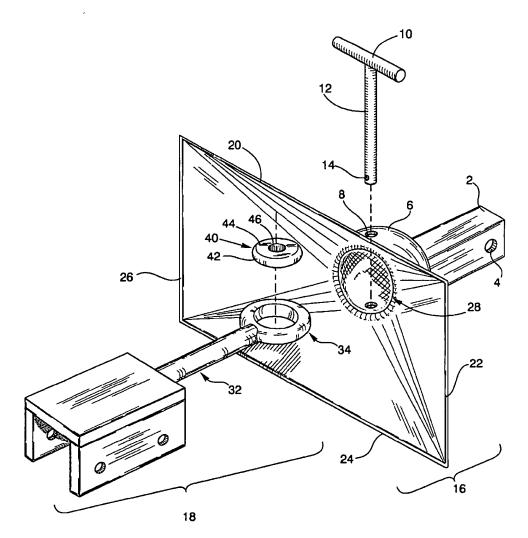
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Primary Examiner-Ed L. Swinehart

[57] ABSTRACT

This is an improved trailer hitch apparatus which is selfaligning and essentially self-connecting, and which allows for maximum horizontal and vertical movement of the towed vehicle relative to the towing vehicle. The device includes a plurality of connected guide walls which converge into a spherical housing, having a circular opening at the point of convergence, and a double ring coupler device, which is attached to a standard trailer tongue, having an inner and outer annulus-shaped ring, formed so that the outer ring is a rigid extension of the trailer tongue and the inner ring rotates freely within the said outer ring. The spherical housing device is attached to the interior channel of a standard trailer hitch and when the towing vehicle is backed toward the trailer, the guide walls capture the double ring device, and slides into the spherical housing, and is secured by a coupler pin, which is inserted through the spherical housing vertically through the inner and outer rings.

1 Claim, 4 Drawing Sheets



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